

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("20040111058").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:39
S2	218	(137/602).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:40
S3	869	(137/625.4).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:39
S4	456	(137/512.15).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:40
S5	497	(137/512.3).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:40
S6	254	(137/896).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:40
S7	3	(S2 or S3 or S4 or S5 or S6) and (umbrella and duckbill)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:42
S8	118	(137/892).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:48
S9	119	(604/6.1).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:49
S10	0	S1 and (mix near5 valve)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:49
S11	0	S9 and (mix near5 valve)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:49

## EAST Search History

S12	4	S9 and (mix\$3 near5 valve)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:50
S13	118	deak.xa.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 10:50
S14	19	("0343251"   "3744524"   "4181610"   "4324662"   "4614590"   "4636473"   "4648866"   "4885087"   "5605630"   "5687764"   "5690829"   "5830365"   "5894011"   "6177049"   "6189388"   "6221040"   "6308737"   "6572576").PN. OR ("6743193"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:05
S15	6	("1547471"   "3973592").PN. OR ("5687764").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:07
S16	16	("2624364"   "2721052"   "2841357"   "3054425"   "3197173").PN. OR ("3744524").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:10
S17	780	(mix\$3 near5 valve) and (pressure and blood)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:12
S18	1	S16 and (second near3 inlet)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:11
S19	1	S16 and (second near5 inlet)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:11
S20	9204	(mix\$3 near5 valve) and (flow near5 control)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:15
S21	379	S20 and blood	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:13
S22	111	S21 and (second near5 inlet)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:14
S23	1514	(mix\$3 near5 valve) and (pressure near5 (flow near5 control))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:13
S24	83	S23 and blood	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:16

## EAST Search History

S25	31	S24 and (second near5 inlet)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:14
S26	1438	(mix\$3 near5 valve) same (pressure near5 control)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:19
S27	22	S26 and blood	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:16
S28	2205	(mix\$3 near5 valve) same (check near3 valve)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:28
S29	356	S28 and (second near3 inlet)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:35
S30	9	("3251508"   "4019652"   "4789100"   "5127547"   "5332125"   "5477988"   "5979794"   "6564971").PN. OR ("6929153").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:20
S31	16	("2946488"   "3212676").PN. OR ("4019652").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:22
S32	2205	(mix\$3 near5 valve) same (pressure near S5(check near3 valve))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:28
S33	356	S32 and (second near3 inlet)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:29
S34	325	(mix\$3 near5 valve) same (pressure near5 (check near3 valve))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:29
S35	52	S34 and (second near3 inlet)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:29
S36	11	S29 and blood	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/02 13:36
S37	592	(251/12,61).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:47
S38	197	(251/149).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:48

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S39	276	(251/149.9).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:48
S40	480	(251/335.2).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:48
S41	821	(604/4.01,5.01).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:48
S42	360	(604/6.1,6.11).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:49
S43	426	(604/9).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:49
S44	630	(604/65).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:50
S45	33	JONES-KENNETH.in. or MILLER-DARIN.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/02 14:50
S46	4	("5697904" "6743193").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 15:10
S47	124	(604/6.1).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 15:10
S48	31	("3384113"   "3995617"   "4502502"   "4642097"   "4657536"   "4671786"   "4725266").PN. OR ("4758224").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/18 15:22
S49	12	("4379470"   "4502502"   "4642097"   "4671786"   "4725266"   "4758224"   "5401255"   "5419366"   "5707356").PN. OR ("6142980"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/18 15:26

## EAST Search History

S50	29	("20020052638"   "4230128"   "4310017"   "4397335"   "4595005"   "4642097"   "4668215"   "4680026"   "4708717"   "4921478"   "4957482"   "4964849"   "5034000"   "5135492"   "5203769"   "5230704"   "5250060"   "5269768"   "5453097"   "5484412"   "5496270"   "5707356"   "5833650"   "5902264"   "5919174"   "6022336"   "6142980"   "6168577"   "6482217").PN. OR ("6960189").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/18 15:28
S51	19	(US-6543478-\$ or US-6508406-\$ or US-4019652-\$ or US-4758224-\$ or US-6743193-\$ or US-4176686-\$ or US-2972356-\$ or US-2424654-\$ or US-5697904-\$ or US-5372283-\$ or US-6042015-\$ or US-6851440-\$ or US-6929153-\$ or US-5200267-\$ or US-6142980-\$ or US-7033336-\$ or US-6960189-\$ or US-5919174-\$). did. or (US-2924880-\$).did.	USPAT; USOCR	OR	OFF	2006/08/18 16:07
S52	5	S51 and (visual or indicator or visible)	USPAT; USOCR	OR	OFF	2006/08/18 16:08
S53	1300	valve and ((visual or indicator or visible) with blood)	USPAT; USOCR	OR	OFF	2006/08/18 16:08
S54	113	valve and ((visual or indicator or visible) with (blood near3 blood))	USPAT; USOCR	OR	OFF	2006/08/18 16:08
S55	1	valve with ((visual or indicator or visible) with (blood near3 blood))	USPAT; USOCR	OR	OFF	2006/08/18 16:09
S56	15	valve with ((visual or indicator or visible) with (blood near3 flow))	USPAT; USOCR	OR	OFF	2006/08/18 16:11
S57	15	valve with ((visual\$3 or indicator or visible) with (blood near3 flow))	USPAT; USOCR	OR	OFF	2006/08/18 16:12
S58	71	valve with ((visual\$3 or indicator or visible) with (blood))	USPAT; USOCR	OR	OFF	2006/08/18 17:11
S59	18	valve with (mechanical with indicator with flow)	USPAT; USOCR	OR	OFF	2006/08/18 17:21
S60	2	valve with (mechanical with indicator with flow with direction)	USPAT; USOCR	OR	OFF	2006/08/18 17:23
S61	2	("20040111058").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/18 17:22
S62	84	valve with ((pop adj up) with flow)	USPAT; USOCR	OR	OFF	2006/08/18 17:36

## EAST Search History

S63	700	valve with (electronic with flow with (sensor or indicator or detector))	USPAT; USOCR	OR	OFF	2006/08/18 17:41
S64	15	S63 and blood	USPAT; USOCR	OR	OFF	2006/08/18 17:37
S65	30634	valve with (electronic with flow with (sensor or indicator or detector) with display or light)	USPAT; USOCR	OR	OFF	2006/08/18 17:41
S66	13	valve with (electronic with flow with (sensor or indicator or detector) with (display or light))	USPAT; USOCR	OR	OFF	2006/08/18 17:42
S67	1026	(electronic with flow with (display or light))	USPAT; USOCR	OR	OFF	2006/08/18 17:42
S68	104	S67 and blood	USPAT; USOCR	OR	OFF	2006/08/18 17:43
S69	135	S67 same valve	USPAT; USOCR	OR	OFF	2006/08/18 17:43
S70	12	S69 and blood	USPAT; USOCR	OR	OFF	2006/08/18 17:46
S71	249	electronic with flow with indicator	USPAT; USOCR	OR	OFF	2006/08/18 17:46
S72	21	S71 and blood	USPAT; USOCR	OR	OFF	2006/08/18 17:48
S73	378	(flow near3 (sensor or detector) with (indicator))	USPAT; USOCR	OR	OFF	2006/08/18 17:49
S74	5	(flow near3 (electronic with (sensor or detector)) with (indicator))	USPAT; USOCR	OR	OFF	2006/08/18 17:50
S75	39	(valve with flow with indicator with electronic)	USPAT; USOCR	OR	OFF	2006/08/18 17:51
S76	3804	(valve with flow with electronic)	USPAT; USOCR	OR	OFF	2006/08/18 17:51
S77	665	(valve with flow with electronic with (detector or sensor))	USPAT; USOCR	OR	OFF	2006/08/18 17:53
S78	0	S77 with medical	USPAT; USOCR	OR	OFF	2006/08/18 17:53
S79	1	S77 with blood	USPAT; USOCR	OR	OFF	2006/08/18 17:54
S80	54	(electronic with flow with (sensor or indicator or detector) with display)	USPAT; USOCR	OR	OFF	2006/08/18 17:55
S81	12	("4304257" "4747826" "4758224" "5697904" "6743193" "7033336"). PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/23 16:54

## EAST Search History

S82	447	(604/118).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/23 16:54
S83	292	(604/119).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/23 16:54
S84	8	S82 and (((one near2 way) or unidirectional) and ((two near2 way) or bidirectional))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/23 16:57
S85	1	S83 and (((one near2 way) or unidirectional) and ((two near2 way) or bidirectional))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/23 16:55
S86	883	((one-way and two-way) near3 valve)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/23 16:57
S87	182	S86 and (blood or surgery)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/23 16:58
S88	19	("2876767"   "2888921"   "3916873"   "4052754"   "4071045"   "4326512").PN. OR ("4568337"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/23 17:19
S89	2	("6960189").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/23 17:20
S90	18	("4230128"   "4397335"   "4595005"   "4642097"   "4680026"   "4708717"   "4850350"   "4921478"   "4964849"   "5135492"   "5203769"   "5230704"   "5269768"   "5707356"   "5833650"   "5902264"   "6142980"   "6712815").PN. OR ("7033336"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/23 17:29
S91	73	"604"/\$.ccls. and (valve with acute)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:30
S92	131	(604/6.1).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:16

## EAST Search History

S93	19	("0343251"   "3744524"   "4181610"   "4324662"   "4614590"   "4636473"   "4648866"   "4885087"   "5605630"   "5687764"   "5690829"   "5830365"   "5894011"   "6177049"   "6189388"   "6221040"   "6308737"   "6572576").PN. OR ("6743193"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 14:23
S94	2	(valve same inlet same outlet same acute same (dead near5 space))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 14:24
S95	22	(valve same inlet same outlet same acute same dead)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 14:24
S96	238	(valve same (inlet with outlet with acute))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 14:26
S97	8	S96 and blood	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 14:25
S98	7	(valve same (lumen with acute))	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/24 14:27
S99	8856	(valve same acute)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/24 14:27
S10 0	109	S99 same (in near3 order)	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/24 14:27
S10 1	338	"137"/\$.cccls. and (valve with acute)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:36
S10 2	73	y-valve	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:36
S10 3	2	("20040111058").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:41
S10 4	710	(valve and (angle with (hemolysis or turbulence)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:44



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S10 5	166	(valve same (angle with (hemolysis or turbulence)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:42
S10 6	3	(valve and (angle with hemolysis))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:45
S10 7	17	(valve and (angle same hemolysis))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:46
S10 8	156	(valve and (angle same turbulence) and blood)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/24 14:47
S10 9	65	("3902500"   "3991762"   "4351328"   "4569344"   "4638539"   "4696296"   "4805611"   "4825859"   "4834726"   "4836199"   "4838255"   "4846167"   "4850350"   "4872579"   "4938199"   "4938741"   "4967743"   "4981466"   "5025806"   "5029580"   "5065754"   "5073164"   "5083561"   "5088486"   "5107829"   "5125893"   "5133345"   "5134996"   "5139018"   "5140983"   "5176415"   "5207641"   "5220916"   "5255676"   "5269756"   "5279549"   "5309902"   "5325851"   "5335655"   "5336192"   "5337780"   "5354267"   "5368017"   "5377672"   "5445141"   "5449348"   "5460613"   "5490503"   "5579762"   "5582161"   "5582165"   "5598840"   "5611336"   "5642726"   "5645048"   "5664564"   "5715815"   "5730123"   "5735271"   "5738091"   "5746199"   "5779687"   "5957898"   "6070582").PN. OR ("6935339"). URP.N.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 14:51
S11 0	36	("2352642"   "3463159"   "3595266"   "3822720"   "3967645"   "4096860"   "4106491"   "4211214"   "4467790"   "4634432"   "4646742"   "4760933"   "4795426"   "4822345").PN. OR ("5073168"). URP.N.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 15:24

## EAST Search History

S11 1	39	(acute same angle same (reduce near5 (dead or turbulence)))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 15:25
S11 2	796	(angle same (reduce near5 (dead or turbulence)))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 15:26
S11 3	37	S112 and blood	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/24 15:26
S11 4	2	("20040111058").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/12/10 14:39
S11 5	27	("3556122"   "3572375"   "3626978"   "3633613"   "3661174"   "3818929"   "3905382"   "3941149"   "4084606"   "4502502"   "4642097"   "4671786"   "4758224"   "5290263"   "5401255").PN. OR ("5707356").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/10 15:23
S11 6	498	transparent near2 valve	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/10 15:23
S11 7	58	S116 and blood	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/10 15:28
S11 8	2500208	venipuncture site diagram	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/10 15:28
S11 9	0	venipuncture with site with diagram	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/10 15:29
S12 0	1	venipuncture with diagram	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/10 15:30
S12 1	13	("0399504" "4228796" "4362157" "4685699" "4830407" "5090954" "5306271" "6024285" "6024723" "6036632" "6276723" "6533324").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/10 15:30
S12 2	18	("2245350"   "3542022"   "3547121").PN. OR ("4228796").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/10 15:31